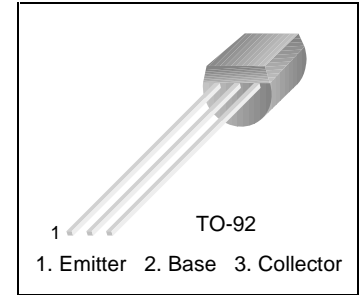


PNP Epitaxial Silicon Transistor

L9012

1W Output Amplifier of Potable Radios in Class B Push-pull Operation.

- High total power dissipation. ($P_T=625\text{mW}$)
- High Collector Current. ($I_C = -500\text{mA}$)
- Complementary to L9013
- Excellent h_{FE} linearity.



Absolute Maximum Ratings $T_a=25^\circ\text{C}$ unless otherwise noted

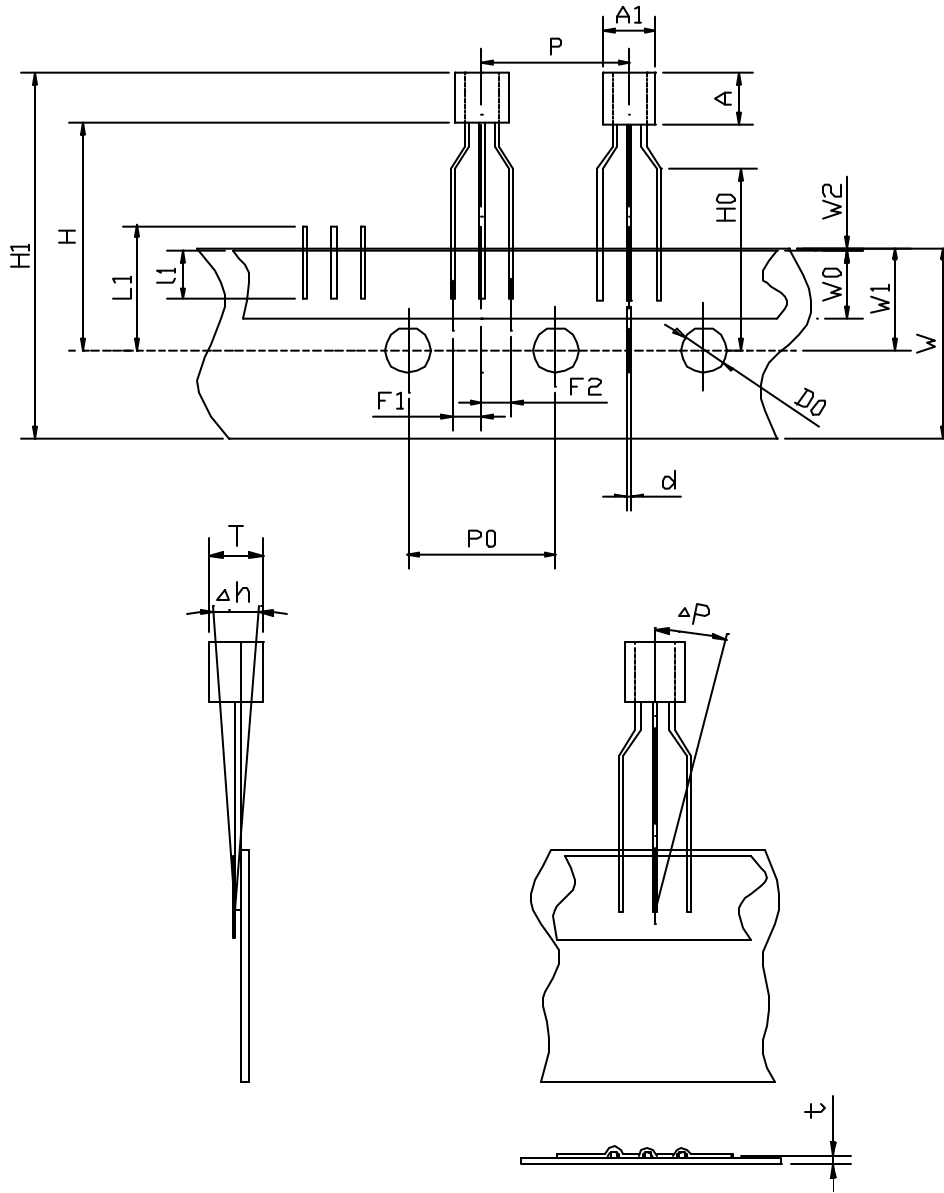
Symbol	Parameter	Ratings	Units
V_{CBO}	Collector-Base Voltage	-40	V
V_{CEO}	Collector-Emitter Voltage	-20	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current	-500	mA
P_C	Collector Power Dissipation	625	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{STG}	Storage Temperature	-55 ~ 150	$^\circ\text{C}$

Electrical Characteristics $T_a=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
BV_{CBO}	Collector-Base Breakdown Voltage	$I_C = -100\mu\text{A}, I_E = 0$	-40			V
BV_{CEO}	Collector-Emitter Breakdown Voltage	$I_C = -1\text{mA}, I_B = 0$	-20			V
BV_{EBO}	Emitter-Base Breakdown Voltage	$I_E = -100\mu\text{A}, I_C = 0$	-5			V
I_{CBO}	Collector Cut-off Current	$V_{CB} = -25\text{V}, I_E = 0$			-100	nA
I_{EBO}	Emitter Cut-off Current	$V_{EB} = -3\text{V}, I_C = 0$			-100	nA
h_{FE1} h_{FE2}	DC Current Gain	$V_{CE} = -1\text{V}, I_C = -50\text{mA}$ $V_{CE} = -1\text{V}, I_C = -500\text{mA}$	64 30	120	300	
$V_{CE}(\text{sat})$	Collector-Emitter Saturation Voltage	$I_C = -500\text{mA}, I_B = -50\text{mA}$		-0.18	-0.6	V
$V_{BE}(\text{sat})$	Base-Emitter Saturation Voltage	$I_C = -500\text{mA}, I_B = -50\text{mA}$		-0.95	-1.2	V
$V_{BE}(\text{on})$	Base-Emitter On Voltage	$V_{CE} = -1\text{V}, I_C = -10\text{mA}$	-0.6	-0.67	-0.7	V

h_{FE} Classification

Classification	D	F	G	H	I
h_{FE1}	64 ~ 96	96 ~ 135	112 ~ 166	144 ~ 202	202 ~ 300



TO-92

SIZE LIST (mm)					
A1	4.5 ± 0.1	P_1	6.35 ± 0.4	H_0	16.0 ± 0.5
A	4.5 ± 0.1	F_1/F_2	$2.5(+0.6, -0.3)$	H_1	
T	3.9 ± 0.1	h	0 ± 2.0	D_0	4.0 ± 0.2
d	0.42 ± 0.01	W	$18.0(+1.0, -0.5)$	t	0.6 ± 0.2
l_1	2.5(min)	W_0	6.0 ± 0.3	L_1	11.0(max)
P	12.7 ± 1.0	W_1	$9.0(+0.75, -0.5)$	P	0 ± 1.0
P_0	12.7 ± 0.2	W_2	0.5(max)		